SPAD on GaAsP for SLR

Calibration Ranging Results

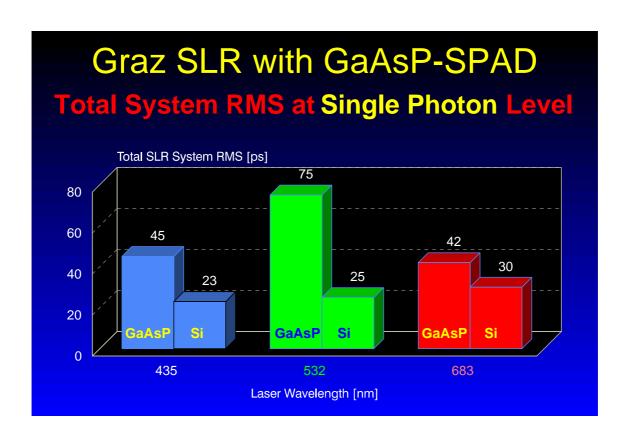
G. Kirchner, F. Koidl I. Prochazka, K. Hamal

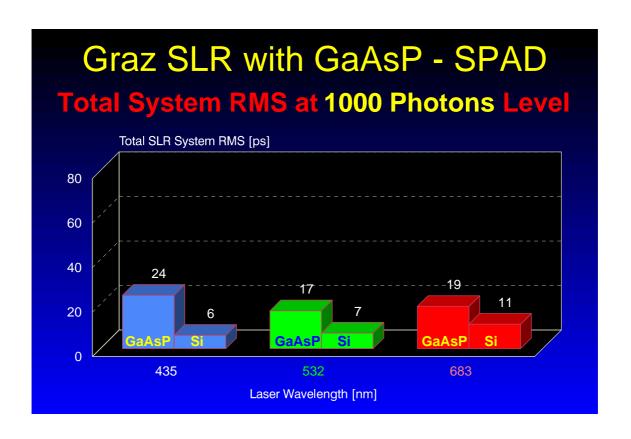
Supported by Grant # 102/00/0820

Matera, Nov. 2000

GaAsP-SPAD Tests: General Setup

- Short CAL Target Ranging
- Single Photon Level: < 10% Return Quote
- 1000 Photons Level: ND3 removed
- Total System RMS: 2.2 Sigma Iteration
- MultiColor: With Raman Tube Setup
- Timing: With 2-ps-Event Timer
- NO Time Walk Compensation for GaAsP





GaAsP - SPAD Tests: Sensitivity

Additional ND-Filters for Si-SPAD, to get same Photon Numbers as for GaAsP (Si-SPAD is MORE sensitive by this Factor):

435 nm 532 nm 683 nm

3 ND's 2.8 ND's 0.8 ND's